

Claims

Sub #1 [c1]
A latch assembly for coupling a door to an apparatus, said latch assembly comprising:
a keeper comprising a biasing member and a head portion extending from said biasing member, said head portion comprising a catch and a lock release projection, said biasing member configured to bias said catch for engagement with the door;
a handle comprising a contact surface in slidable contact with said lock release projection, said handle selectively operable to uncouple the door from the tub assembly; and
a handle retainer coupling said handle to the door.

[c2] ~~A latch assembly in accordance with Claim 1 further comprising a handle hinge pin, said handle hinge pin coupling said handle to said handle retainer.~~

2
[c3] ~~A latch assembly in accordance with Claim 1 further comprising a handle biasing member biasing said handle in a first position.~~

3
[c4] ~~A latch assembly in accordance with Claim 3 wherein said handle biasing member in slidable contact with said handle retainer.~~

Sub #3 [c5] ~~A latch assembly in accordance with Claim 1 wherein said keeper head portion formed integrally with said keeper biasing member.~~

[c6] ~~A latch assembly in accordance with Claim 1 wherein said keeper head portion further comprises a switch actuator.~~

Sub #2 [c7] ~~A latch assembly in accordance with Claim 6 wherein said switch actuator configured to actuate a switch from an open state to a closed state.~~

Sub #4 [c8] ~~A latch assembly in accordance with Claim 1 wherein said handle retainer fixedly attached to the door.~~

Sub #3 [c9] ~~A latch assembly in accordance with Claim 2 wherein said handle rotatably coupled to the door with said hinge pin.~~

[c10] ~~A latch assembly in accordance with Claim 2 wherein said handle further~~

~~comprises at least one pivot arm comprising at least one opening therein
mating sized to receive said handle hinge pin.~~

~~A method for assembling a door latch assembly for a dishwasher, the latch
assembly for securing a dishwasher door to a dishwasher tub assembly, said
method comprising:~~

~~providing a handle;
providing a handle retainer;
connecting the handle to the handle retainer; and
slidably coupling a keeper to the handle.~~

~~A method in accordance with Claim 11 wherein slidably coupling a keeper
further comprises coupling the keeper to the handle such that the handle is
rotatable in a first direction and the keeper is rotatable in a second direction
that is opposite the first direction.~~

~~A method in accordance with Claim 12 wherein providing a handle further
comprises providing a handle including at least one substantially circular
projection that is configured to frictionally retain the handle.~~

~~A method in accordance with Claim 13 wherein connecting the handle to the
handle retainer further comprises frictionally connecting the handle to the
handle retainer.~~

~~A method in accordance with Claim 14 wherein providing a handle retainer
further comprises providing a handle retainer including at least one
substantially circular projection that is configured to frictionally retain a hinge
pin.~~

~~A dishwasher comprising:
a tub assembly;
a door hingedly coupled at first edge to said tub assembly; and
a latch assembly configured to secure said door to said tub assembly, said latch
assembly comprising:
a handle; and
a keeper in slidably coupled with said handle, said handle rotatable in a first~~

[c] 7

Hand C [c18]

[c19]

add A6 add B5